

# SEQUENCE LISTING

<110> Bristol-Myers Squibb Company

<120> A NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR, HGPRBMY14, RELATED TO THE ORPHAN GPCR, GPR73

<130> D0118 NP

<150> US 60/266,525

<151> 2001-02-05

<150> US 60/329,897

<151> 2001-10-16

<160> 92

<170> PatentIn version 3.0

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Gln Gln Leu Tyr Tyr Lys Ser Tyr Phe Leu Phe Ile Phe Gly Ile Glu  
225 230 235 240

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245 250 255

Arg Glu Leu Trp Phe Lys Ala Val Pro Gly Phe Gln Thr Glu Gln Ile  
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Arg Lys Arg Leu Arg Cys Arg Arg Lys Thr Val Leu Val Leu Met Cys  
275 280 285

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325 330 335

Ile Asn Thr Leu Cys Phe Val Thr Val Lys Asn Asp Thr Val Lys Tyr  
340 345 350

Phe Lys Lys Ile Met Leu Leu His Trp Lys Ala Ser Tyr Asn Gly Gly  
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Ser Thr Asn Ala Leu Leu Ala Ile Ala Ile Asp Arg Tyr Leu Ala Ile  
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Ser Tyr Phe Leu Phe Ile Phe Gly Val Glu Phe Val Gly Pro Val Val  
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Ala Val Pro Gly Phe Gln Thr Glu Gln Ile Arg Lys Arg Leu Arg Cys  
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Val Thr Val Lys Asn Asn Thr Met Lys Tyr Phe Lys Lys Met Met Leu  
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Leu His Trp Arg Pro Ser Gln Arg Gly Ser Lys Ser Ser Ala Asp Leu  
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Arg Leu Lys  
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Glu Glu Asp Val Thr Asn Ser Arg Thr Phe Phe Ala Ala Lys Ile Val  
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Thr Asn Leu Leu Ile Ala Asn Leu Ala Ile Ser Asp Phe Leu Val Ala  
100 105 110

Ile Val Cys Cys Pro Phe Glu Met Asp Tyr Tyr Val Val Arg Gln Leu  
115 120 125

Ser Trp Glu His Gly His Val Leu Cys Ala Ser Val Asn Tyr Leu Arg  
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Asp Arg Tyr Leu Ala Ile Val His Pro Leu Arg Pro Arg Met Lys Cys  
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Gln Thr Ala Ala Gly Leu Ile Phe Leu Val Trp Ser Val Ser Ile Leu  
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Ile Ala Ile Pro Ala Ala Tyr Phe Thr Thr Glu Thr Val Leu Val Ile  
195 200 205

Val Glu Arg Gln Glu Lys Ile Phe Cys Gly Gln Ile Trp Pro Val Asp  
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Gln Gln Phe Tyr Tyr Arg Ser Tyr Phe Leu Leu Val Phe Gly Leu Glu  
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Phe Val Gly Pro Val Val Ala Met Thr Leu Cys Tyr Ala Arg Val Ser  
245 250 255

Arg Glu Leu Trp Phe Lys Ala Val Pro Gly Phe Gln Thr Glu Gln Ile  
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Arg Arg Thr Val Arg Cys Arg Arg Arg Thr Val Leu Gly Leu Val Cys  
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Val Leu Ser Ala Tyr Val Leu Cys Trp Ala Pro Phe Tyr Gly Phe Thr  
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Ile Val Arg Asp Phe Phe Pro Ser Val Phe Val Lys Glu Lys His Tyr  
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Leu Thr Ala Phe Tyr Val Val Glu Cys Ile Ala Met Ser Asn Ser Met  
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Ile Asn Thr Leu Cys Phe Val Thr Val Arg Asn Asn Thr Ser Lys Tyr  
340 345 350

Leu Lys Arg Ile Leu Arg Leu Gln Trp Arg Ala Ser Pro Ser Gly Ser  
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Val Gln Val Val Leu Ile Leu Ala Tyr Cys Ser Ile Ile Leu Leu Gly  
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65 70 75 80

Met Arg Thr Val Thr Asn Phe Phe Ile Ala Asn Leu Ala Val Ala Asp  
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Leu Leu Val Asn Thr Leu Cys Leu Pro Phe Thr Leu Thr Tyr Thr Leu  
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Met Gly Glu Trp Lys Met Gly Pro Val Leu Cys His Leu Val Pro Tyr  
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Ala Gln Gly Leu Ala Val Gln Val Ser Thr Ile Thr Leu Thr Val Ile  
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Ala Leu Asp Arg His Arg Cys Ile Val Tyr His Leu Glu Ser Lys Ile  
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Ser Lys Gln Ile Ser Phe Leu Ile Ile Gly Leu Ala Trp Gly Val Ser  
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Ala Leu Leu Ala Ser Pro Leu Ala Ile Phe Arg Glu Tyr Ser Leu Ile  
180 185 190

Glu Ile Ile Pro Asp Phe Glu Ile Val Ala Cys Thr Glu Lys Trp Pro  
195 200 205

Gly Glu Glu Lys Ser Val Tyr Gly Thr Val Tyr Ser Leu Ser Thr Leu  
210 215 220

Leu Ile Leu Tyr Val Leu Pro Leu Gly Ile Ile Ser Phe Ser Tyr Thr  
225 230 235 240

Arg Ile Trp Ser Lys Leu Lys Asn His Val Ser Pro Gly Ala Ala Ser  
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Asp His Tyr His Gln Arg Arg His Lys Thr Thr Lys Met Leu Val Cys  
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Val Val Val Val Phe Ala Val Ser Trp Leu Pro Leu His Ala Phe Gln  
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Leu Ala Val Asp Ile Asp Ser His Val Leu Asp Leu Lys Glu Tyr Lys  
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Leu Ile Phe Thr Val Phe His Ile Ile Ala Met Cys Ser Thr Phe Ala  
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Asn Pro Leu Leu Tyr Gly Trp Met Asn Ser Asn Tyr Arg Lys Ala Phe

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Leu Ser Ala Phe Arg Cys Glu Gln Arg Leu Asp Ala Ile His Ser Glu  
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&lt;211&gt; 385

&lt;212&gt; PRT

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Val Ser Glu Leu Ala Leu Asp Pro Lys Pro Glu Leu Lys Asp Ser Thr  
35 40 45

Thr Leu Val Glu Val Gln Ile Ile Leu Ile Phe Ala Tyr Cys Ser Ile  
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Ile Leu Leu Gly Val Ile Gly Asn Ser Leu Val Ile His Val Ile Ile  
65 70 75 80

Lys Phe Lys Ser Met Arg Thr Val Thr Asn Phe Phe Ile Ala Asn Leu  
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Ala Val Ala Asp Leu Leu Val Asn Thr Leu Cys Leu Pro Phe Thr Leu  
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Val Tyr Thr Leu Leu Gly Glu Trp Lys Leu Gly Pro Val Leu Cys His  
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Leu Val Pro Tyr Ala Gln Ala Leu Ala Val His Val Ser Thr Val Thr  
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Leu Thr Val Ile Ala Leu Asp Arg His Arg Cys Ile Val Tyr His Leu  
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Glu Ser Lys Ile Ser Lys Arg Ile Ser Phe Leu Ile Ile Gly Val Ala  
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Trp Ala Val Ser Ala Leu Leu Ala Ser Pro Leu Ala Ile Phe Arg Glu  
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Tyr Ser Leu Ile Glu Ile Ile Pro Asp Phe Lys Ile Val Val Cys Ser  
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Glu Lys Trp Pro Gly Glu Gly Gln Leu Asn Tyr Gly Thr Ile Tyr Ser  
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Val Ser Met Leu Leu Ile Gln Tyr Val Leu Pro Leu Ala Ile Ile Ser  
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Gly Ala Gly Asn Asp His Tyr His His Arg Arg Gln Lys Thr Thr Lys  
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Met Leu Val Cys Val Val Val Val Phe Ala Val Ser Trp Leu Pro Phe  
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His Ala Phe Gln Leu Val Ser Asp Ile Asp Ser Gln Val Leu Asp Leu  
290 295 300

Lys Glu Tyr Lys Leu Ile Tyr Thr Val Phe His Val Ile Ala Met Cys  
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Ser Thr Phe Ala Asn Pro Leu Leu Tyr Gly Trp Met Asn Asn Asn Tyr  
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Arg Thr Ala Phe Leu Thr Ala Phe Gln Cys Glu Gln Arg Leu Asp Ser  
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 <400> 37 16  
 tggccagcag ggcatt  
  
 <210> 38  
 <211> 31  
 <212> DNA  
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 <400> 38 31  
 tacctgogca ctgtctctct ctatgtctcc a  
  
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<400> 39  
cccaagcttg caccatggag accaccatgg gggtcatgga 40

<210> 40  
<211> 69  
<212> DNA  
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<400> 40  
gtccgggatc cctactgtgc gtcgtcgtcc ttgtagtcca tttttagtct gatgcagtcc 60  
acctcttcg 69

<210> 41  
<211> 99  
<212> DNA  
<213> artificial

<220>  
<223> Synthesized Random Oligonucleotide.

<220>  
<221> misc\_feature  
<222> (25)..(83)  
<223> wherein "n" equals A, C, G, or T.

<220>  
<221> misc\_feature  
<222> (27)..(84)  
<223> wherein "b" equals C, G, or T.

<400> 41  
cgaagcgtaa gggcccgacc ggccnnbnnb nbnbnbnbn nbnbnbnbn bnnbnbnbn 60  
nbnbnbnbn nbnbnbnbn bnnbccgggt ccgggcggc 99

<210> 42  
<211> 95  
<212> DNA  
<213> artificial

<220>  
<223> Synthesized Random Oligonucleotide.

<220>  
<221> misc\_feature  
<222> (22)..(80)  
<223> wherein "n" equals A, C, G, or T.

<220>  
<221> misc\_feature

<222> (21)..(78)  
 <223> wherein "v" equals C, A, or G..

<400> 42  
 aaaagga aaa aagcgccgc vnnvnnvnnv nnvnnvnnvn nvnnvnnvnn vnnvnnvnnv 60  
 nnvnnvnnvn nnvnnvnnvn gccgcccgga cccgg 95

<210> 43  
 <211> 25  
 <212> DNA  
 <213> ARTIFICIAL

<220>  
 <223> Synthesized Oligonucleotide.

<400> 43  
 auccugagug uucaccugcu gaccu 25

<210> 44  
 <211> 25  
 <212> DNA  
 <213> ARTIFICIAL

<220>  
 <223> Synthesized Oligonucleotide.

<400> 44  
 ugggccacg auuuguacac cucca 25

<210> 45  
 <211> 25  
 <212> DNA  
 <213> ARTIFICIAL

<220>  
 <223> Synthesized Oligonucleotide.

<400> 45  
 acaugagcac caggaccguc uuccu 25

<210> 46  
 <211> 25  
 <212> DNA  
 <213> ARTIFICIAL

<220>  
 <223> Synthesized Oligonucleotide.

<400> 46  
 cacagaau gu caggaguugu ccaga 25

<210> 47  
 <211> 25  
 <212> DNA  
 <213> ARTIFICIAL

<220>  
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<400> 47  
 ggacauucag gccggucauc agucu 25

<210> 48  
 <211> 16  
 <212> DNA  
 <213> Homo sapiens

<400> 48  
 cccggtggac cacgaa 16

<210> 49  
 <211> 19  
 <212> DNA  
 <213> Homo sapiens

<400> 49  
 ggctcgccctc ttccatgtc 19

<210> 50  
 <211> 25  
 <212> DNA  
 <213> Homo sapiens

<400> 50  
 aacccgggac ttggagaagc actgc 25

<210> 51  
 <211> 24  
 <212> DNA  
 <213> Homo sapiens

<400> 51  
 gaggatgagg agagctatga caca 24

<210> 52  
 <211> 22  
 <212> DNA  
 <213> Homo sapiens

<400> 52  
 ccctttgcac tcataacgtc ag 22

<210> 53  
 <211> 29  
 <212> DNA  
 <213> Homo sapiens

<400> 53  
 aaacacacag tcatcatagg gcagctcgt 29

<210> 54  
 <211> 23  
 <212> DNA  
 <213> Homo sapiens

<400> 54  
 caggtgcagc tgggtgcagtc tgg 23

<210> 55  
 <211> 23  
 <212> DNA  
 <213> Homo sapiens

<400> 55  
 caggtcaact taaggagtc tgg 23

<210> 56  
 <211> 23  
 <212> DNA  
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<400> 56  
 gaggtgcagc tgggtggagtc tgg 23

<210> 57  
 <211> 23  
 <212> DNA  
 <213> Homo sapiens

<400> 57  
 caggtgcagc tgcaggagtc ggg 23

<210> 58  
 <211> 23  
 <212> DNA  
 <213> Homo sapiens

<400> 58  
 gaggtgcagc tgttgcagtc tgc 23

<210> 59  
 <211> 23

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<212> DNA  
<213> Homo sapiens  
  
<400> 59  
caggtacagc tgcagcagtc agg 23  
  
<210> 60  
<211> 24  
<212> DNA  
<213> Homo sapiens  
  
<400> 60  
tgaggagacg gtgaccaggg tgcc 24  
  
<210> 61  
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<213> Homo sapiens  
  
<400> 61  
tgaagagacg gtgaccattg tccc 24  
  
<210> 62  
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<212> DNA  
<213> Homo sapiens  
  
<400> 62  
tgaggagacg gtgaccaggg ttcc 24  
  
<210> 63  
<211> 24  
<212> DNA  
<213> Homo sapiens  
  
<400> 63  
tgaggagacg gtgaccgtgg tccc 24  
  
<210> 64  
<211> 23  
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<213> Homo sapiens  
  
<400> 64  
gacatccaga tgacccagtc tcc 23  
  
<210> 65  
<211> 23  
<212> DNA  
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<400> 65  
gatgttgtga tgactcagtc tcc

23

<210> 66  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 66  
gatattgtga tgactcagtc tcc

23

<210> 67  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 67  
gaaatttgtg tgacgcagtc tcc

23

<210> 68  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 68  
gacatcgtga tgacccagtc tcc

23

<210> 69  
<211> 23  
<212> DNA  
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<400> 69  
gaaacgacac tcacgcagtc tcc

23

<210> 70  
<211> 23  
<212> DNA  
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<400> 70  
gaaattgtgc tgactcagtc tcc

23

<210> 71  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 71  
cagtcgtgtg tgacgcagcc gcc

23

<210> 72  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 72  
cagtctgccc tgactcagcc tgc 23

<210> 73  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 73  
tcctatgtgc tgactcagcc acc 23

<210> 74  
<211> 23  
<212> DNA  
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<400> 74  
tcttctgagc tgactcagga ccc 23

<210> 75  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 75  
cacgttatac tgactcaacc gcc 23

<210> 76  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 76  
caggctgtgc tcactcagcc gtc 23

<210> 77  
<211> 23  
<212> DNA  
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<400> 77  
aattttatgc tgactcagcc cca 23

<210> 78  
<211> 24



<212> DNA  
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 <400> 78  
 acgttttgatt tccaccttgg tccc

24

<210> 79  
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 acgttttgatc tccagcttgg tccc

24

<210> 80  
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 <400> 80  
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24

<210> 81  
 <211> 24  
 <212> DNA  
 <213> Homo sapiens  
 <400> 81  
 acgttttgatc tccaccttgg tccc

24

<210> 82  
 <211> 24  
 <212> DNA  
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 <400> 82  
 acgttttaatc tccagctgtg tccc

24

<210> 83  
 <211> 23  
 <212> DNA  
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 <400> 83  
 cagctgtgtg tgacgcagcc gcc

23

<210> 84  
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 <212> DNA  
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<400> 84  
cagtctgccc tgactcagcc tgc

23

<210> 85  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 85  
tcctatgtgc tgactcagcc acc

23

<210> 86  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 86  
tcttctgagc tgactcagga ccc

23

<210> 87  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 87  
cacgttatac tgactcaacc gcc

23

<210> 88  
<211> 15  
<212> PRT  
<213> artificial

<220>  
<223> Synthesized Random Peptide.

<400> 88

Val Asp Thr Phe Phe Glu Asp Ile Pro Trp Gly Phe Val Leu Phe  
1 5 10 15

<210> 89  
<211> 15  
<212> PRT  
<213> artificial

<220>  
<223> Synthesized Random Peptide.

<400> 89

Leu Phe Val Asp Lys Trp Asp Leu Ser Asn Phe Trp Gly Gly Gly  
1 5 10 15

<210> 90  
<211> 15  
<212> PRT  
<213> artificial

<220>  
<223> Synthesized Random Peptide.

<400> 90

Leu Phe Leu Glu Ala Trp Asp Leu Ser Asp Thr Pro His Leu Tyr  
1 5 10 15

<210> 91  
<211> 15  
<212> PRT  
<213> artificial

<220>  
<223> Synthesized Random Peptide.

<400> 91

Val Trp Gly Asn Ser Leu Ile Val Gly Arg Trp Asp Val Val Gly  
1 5 10 15

<210> 92  
<211> 15  
<212> PRT  
<213> artificial

<220>  
<223> Synthesized Random Peptide.

<400> 92

Ile Gly Gly Val Gly Asp Gly Leu Tyr Val Val Ser Trp Asp Leu  
1 5 10 15